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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/504,304	02/15/2000	Roland F. Portman	1458P	7700

7590

12/31/2002

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EXAMINER

PHAN, THANH S

ART UNIT

PAPER NUMBER

2841

DATE MAILED: 12/31/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/504,304

Applicant(s)

PORTMAN ET AL.

Examiner

Thanh S Phan

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 and 15-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 and 15-26 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7-10, 13, and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Yagi (U.S Pat # 4,667,270).

Regarding claim 1, Yagi discloses a removable visual structure (Figure 1, elements 10, 18) comprising:

A removable connection portion (18); and

A visual indication portion (10) coupled to the removable connection portion, wherein the visual indication structure portion is non-removably coupled to the removable connection portion, wherein the visual indication structure can be removably attached to a printed circuit board (Figure 1).

Regarding claim 2, Yagi discloses a removable visual indication structure comprises an LED (Figure 1, element 10).

Regarding claim 3, Yagi discloses that the LED comprises a surface mount LED (Figure 1, element 10).

Regarding claim 4, Yagi discloses that the removable visual structure wherein the removable connection portion comprises a surface mount connector (Figure 1, element 18).

Regarding claim 7, Yagi discloses a removable visual indication structure for use with a printed circuit board (Figure 1, elements 10, 18, 36) comprising:

A removable connector (18) adapted to be attached to the printed circuit board (36); and at least one visual indicator (10) coupled to the removable connector.

Regarding claim 8, Yagi discloses the visual indication structure comprises an LED (Figure 1, element 10).

Regarding claim 9, Yagi discloses a removable visual indication structure wherein the LED comprises a surface mount LED (Figure 1, element 10).

Regarding claim 10, Yagi discloses a removable visual indication structure wherein the removable connector comprises a surface mount connector (Figure 1, element 18).

Regarding claims 13, 15-17, Yagi discloses a printed circuit board system (Figure 1) comprising;

A printed circuit board (element 36);

At least one pin coupled to the printed circuit board (element 20 between elements 42); and at least one removable visual indication structure coupled to the at least one pin (element 10).

At least one removable visual indication structure comprises: a removable connector (element 18) adapted to be attached to the printed circuit board; and at least one visual indicator (element 10) coupled to the removable connector.

At least one visual indicator comprises an LED (element 10).

The LED comprises a surface mount LED (element 10).

The removable connector comprises a surface mount connector (element 18).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5-6, 11-12, 18-19, and 20-25 rejected under 35 U.S.C. 103(a) as being unpatentable over Yagi.

Yagi does not disclose that the LED is soldered to the surface mount connector, however, it involves no invention to cast in one piece an article which has formerly been cast in two pieces and put together. *Howard v. Detroit Stove Works*, 150 U.S. 164 (1893).

Regarding claims 20-25, the method steps are necessitated by a light indicator structure to a printed circuit board as it is disclosed by Yagi as mentioned above.

Response to Arguments

Applicant's arguments filed 10-16-02 have been fully considered but they are not persuasive.

Applicant argues that the visual indication portion of Yagi is removably coupled to the removable connection.

Yagi discloses a removable support for an indication portion having a non-removable LED fixed therein, note Yagi's specification, column 1, lines 65-68 and column 2, lines 1-10. Yagi states that the LED is held **securely in position** by the inward restoring forces of the gripper arms.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

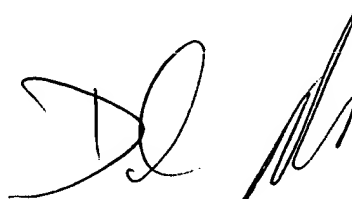
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh S Phan whose telephone number is 703-305-0069. The examiner can normally be reached on M-F 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David S Martin can be reached on 703-308-3121. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7722 for regular communications and 703-305-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TSP
December 24, 2002

A handwritten signature in black ink, appearing to be 'DM' followed by a stylized flourish.

DAVID MARTIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800